

Curriculum Vitae

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Research Program for Receptor Biochemistry & Tumor Metabolism,
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Education

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| 2013 - 2019 | PhD in Molecular Biology,
University of Natural Science, Salzburg, Austria |
| 2006 - 2009 | M.Sc, in Biology, Cell and Molecular Science,
Islamic Azad University - Science and Research Branch, Tehran, Iran |
| 2000 - 2004 | B.Sc, in Biology, Cell and Molecular Science,
Islamic Azad University - Tonekabun Branch, Tonekabun, Iran |

Professional Experiences

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| Since Feb 2019 | Postdoc position, Research Program of Receptor Biochemistry and Tumor Metabolism, University Hospital of the Paracelsus Medical University, Salzburg, Austria |
| 2016 - 2019 | Scientific employee at the Clinical Research Centre Salzburg. Salzburg, Austria |
| 2009 - 2013 | Commercial expert, Sarcheshmeh Copper Investment Co. Tehran, Iran |
| 2007 - 2009 | Researcher at Department of Molecular Medicine, Pasteur Institute of Iran, Tehran, Iran |

Research Interests

Cancer Biology and Treatment

Tumor Metabolism and Metabolic Targets in Cancer Cells

Laboratory Experience

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| ➤ Mouse Handling and Xenograft Models | ➤ Western Blotting, Immunohistochemistry and Elisa |
| ➤ Microplate-based respiratory | |
| ➤ Amino Acids Measurement | ➤ Cloning and Sequence Analysis |
| ➤ OXPHOS Enzyme Activity | ➤ Primer Design and PCR (RFLP and qPCR) |
| ➤ Measurement | ➤ Single-Strand Conformation Polymorphism (SSCP) |
| ➤ Tumor Spheroid Models | |
| ➤ Toxicological Screening | ➤ Statistic tools: GraphPad Prism, MetaboAnalyst |

Grants

2018 PMU-FFF research fund (12.270 Euro, R-18/02/104-AMI), Applicant: Metabolic targeting of melanoma

Awards

2018 Travel Grant for the International Society of Cancer Metabolism Conference

2015 Paracelsus Research Award in Bronze

2017 Paracelsus Research Award in Bronze

List of Publications

2019 Locker F, Stockinger J, **Aminzadeh-Gohari S**, Weber D, Saniob P, Koller A, Feichtinger RG, Weiß R, Kofler B, Lang R. The influence of ketogenic diet on psoriasiform-like skin inflammation. (Submitted in JID).

2019 Licha D, Vidali S, **Aminzadeh-Gohari S**, Alka O, Breitzkreuz L, Kohlbacher O, Reischl RJ, Feichtinger RG, Kofler B, Huber CG. Untargeted Metabolomics Reveals Molecular Effects of Ketogenic Diet on Healthy and Tumor Xenograft Mouse Models. *Int J Mol Sci.* 8;20(16).

2019 Weber DD, **Aminzadeh-Gohari S**, Tulipan1 J, Catalano1 L, Feichtinger RG, Kofler B. Ketogenic diet in the treatment of cancer - where do we stand?. *Mol Metab.* S2212-8778(19)30427-2.

2019 **Aminzadeh-Gohari S**, Weber DD, Vidali S, Catalano1 L, Kofler B, Feichtinger RG. From old to new – Repurposing drugs to target mitochondrial energy metabolism in cancer. *Semin Cell Dev Biol.* S1084-9521(18)30188-5.

2019 Vidali S*, **Aminzadeh-Gohari S***, Vatrinet R, Iommarini L, Porcelli AM, Feichtinger RG, Kofler B. Lithium and not acetoacetate might be responsible for growth variation in cells treated by lithium acetoacetate. *Int J Mol Sci.* 20(12): 3104. (*These authors contributed equally to this paper)

2019 **Aminzadeh-Gohari S**, Feichtinger RG, Kofler B. Energy metabolism and metabolic targeting in neuroblastoma. (Book chapter on NEUROBLASTOMA: Molecular Mechanisms and Therapeutic Interventions).

2018 Weber D, **Aminzadeh-Gohari S**, Kofler B. Ketogenic diet in cancer therapy. *Aging (Albany NY)* 10(2): 164–165.

2017 **Aminzadeh-Gohari S**, Feichtinger RG, Vidali S, Locker F, Rutherford T, O'Donnell M, Stöger-Kleiber A, Mayr JA, Sperl W, Kofler B. A ketogenic diet supplemented with medium-chain triglycerides enhances the anti-tumor and anti-angiogenic efficacy of chemotherapy on neuroblastoma xenografts in a CD1-nu mouse model. *Oncotarget* 8:64728-64744 (Priority research paper).

2017 Vidali S, **Aminzadeh-Gohari S**, Feichtinger RG, Vatrinet R, Koller A, Locker F, Rutherford T, O'Donnell M, Stöger-Kleiber A, Lambert B, Felder TK, Sperl W, Kofler B. The ketogenic diet is not feasible as a therapy in a CD-1 nu/nu mouse model of renal cell carcinoma with features of Stauffer's syndrome. *Oncotarget* 8:57201-57215.

2017 Feichtinger RG, Petervari E, Zopf M, Vidali S, **Aminzadeh-Gohari S**, Mayr JA, Kofler B, & Balasko M. Effects of alpha-melanocyte-stimulating hormone on mitochondrial energy metabolism in rats of different age-groups. *Neuropeptides* 64:123-130.

2016 Morscher RJ, **Aminzadeh-Gohari S**, Hauser-Kronberger C, Feichtinger RG, Sperl W, & Kofler B, Combination of metronomic cyclophosphamide and dietary intervention inhibits neuroblastoma growth in a CD1-nu mouse model. *Oncotarget* 7(13):17060-17073.

2015 Vidali S*, **Aminzadeh S***, Lambert B, Rutherford T, Sperl W, Kofler B, Feichtinger RG. Mitochondria: The ketogenic diet--a metabolism-based therapy. *Int J Biochem Cell Biol* 63:55-59. (*These authors contributed equally to this paper).

2015 **Aminzadeh S***, Vidali S*, Sperl W, Kofler B, Feichtinger RG. Energy metabolism in neuroblastoma and Wilms tumor. *Transl Pediatr* 4(1):20-32. (*These authors contributed equally to this paper).

2015 Morscher RJ, **Aminzadeh-Gohari S**, Feichtinger RG, Mayr JA, Lang R, Neureiter D, Sperl W, Kofler B. Inhibition of Neuroblastoma Tumor Growth by Ketogenic Diet and/or Calorie Restriction in a CD1-Nu Mouse Model. *PLoS One* 10(6):e0129802.

2012 Hashemipour M, Soheilipour F, Karimizare S, Khanahmad H, Karimipour M, **Aminzadeh S**, Kokabee L, Amini M, Hovsepian S, Hadian R Thyroid Peroxidase Gene Mutation in Patients with Congenital Hypothyroidism in Isfahan, Iran. *Int J Endocrinol.* 2012: 717283.

Oral Presentations

2019 **Aminzadeh Gohari S**, Weber DD, Feichtinger RG, Kölblinger P, Bauer J, Kofler B, Lang R. Ketogenic diet as an adjuvant therapy for melanoma. *Mitochondriale Medizin, Zürich, Switzerland.*

2018 **Aminzadeh Gohari S**, Weber D, Vidali S, Licha D, Feichtinger RG, Kölblinger P, Mayr JA, Sperl W, Huber C, Lang R, Kofler B. Ketogenic diet as an adjuvant therapy for solid tumors. *ÖGMBT, Vienna, Austria.*

2017 **Aminzadeh-Gohari S**, Feichtinger RG, Vidali S, Locker F, Rutherford T, Donnel MO, Stöger-Kleiber A, Mayr JA, Sperl W, Kofler B. Medium chain triglyceride supplemented ketogenic diet enhances anti-tumor and anti-angiogenic efficacy of chemotherapy on murine neuroblastoma xenografts. *ISCAM, Bertinoro, Italy.*

Training Program

Certified training program for mouse metabolic phenotyping. 10-13 October 2016, German Mouse Clinic, Helmholtz Center, Munich, Germany.

Memberships

International Society of Cancer Metabolism (ISCAM)

European Association for Cancer Research (EACR)

Österreichische Gesellschaft für Molekulare Biowissenschaften und Biotechnologie (ÖGMBT)